FIG.1

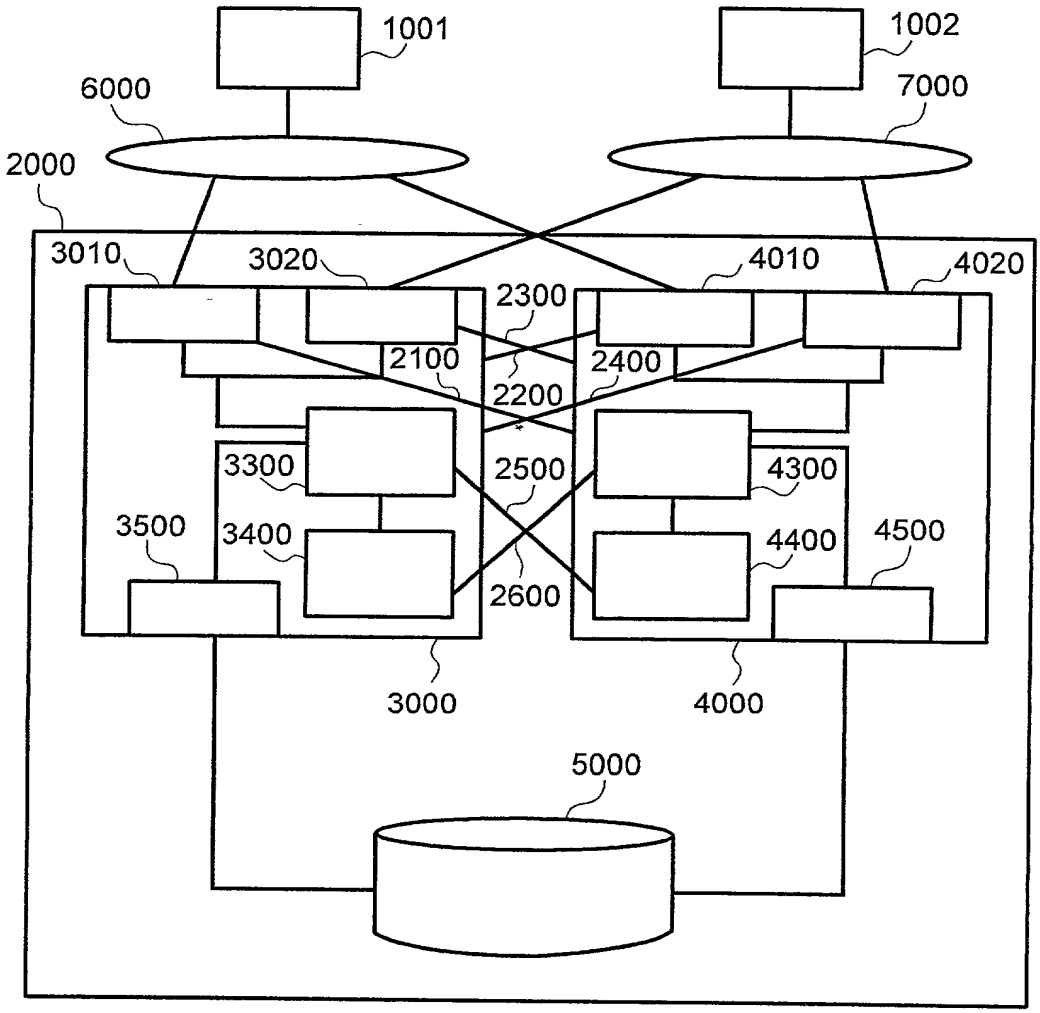

1001
1002
6000
7000
2000
3010
3020
4010
4020
2300
2100
2400
2200
3300
2500
4300
3500
3400
4400
4500
2600
3000
4000
5000

FIG.2

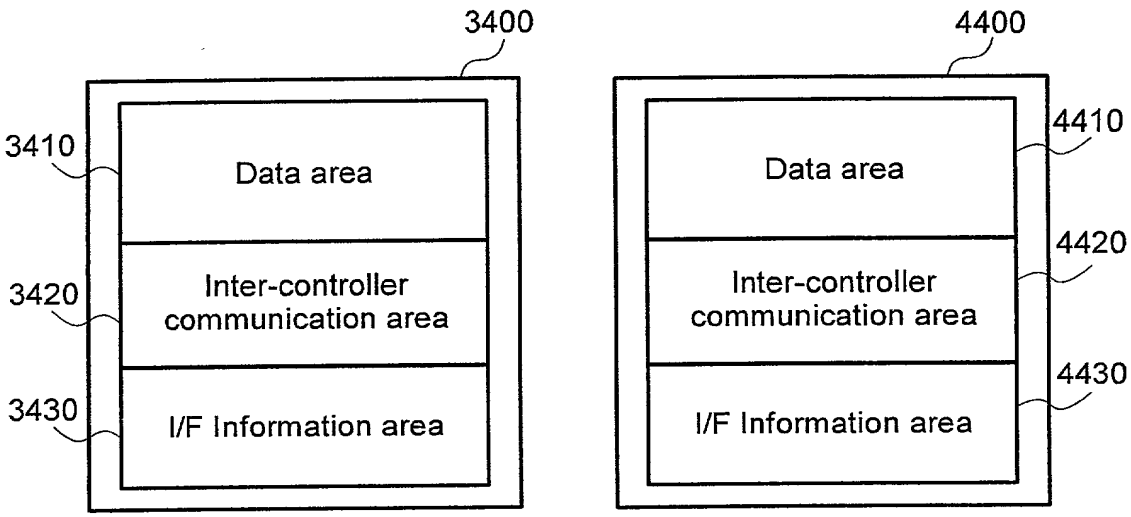

3400
3410
Data area
3420
Inter-controller communication area
3430
I/F Information area
4400
4410
Data area
4420
Inter-controller communication area
4430
I/F Information area

FIG.3

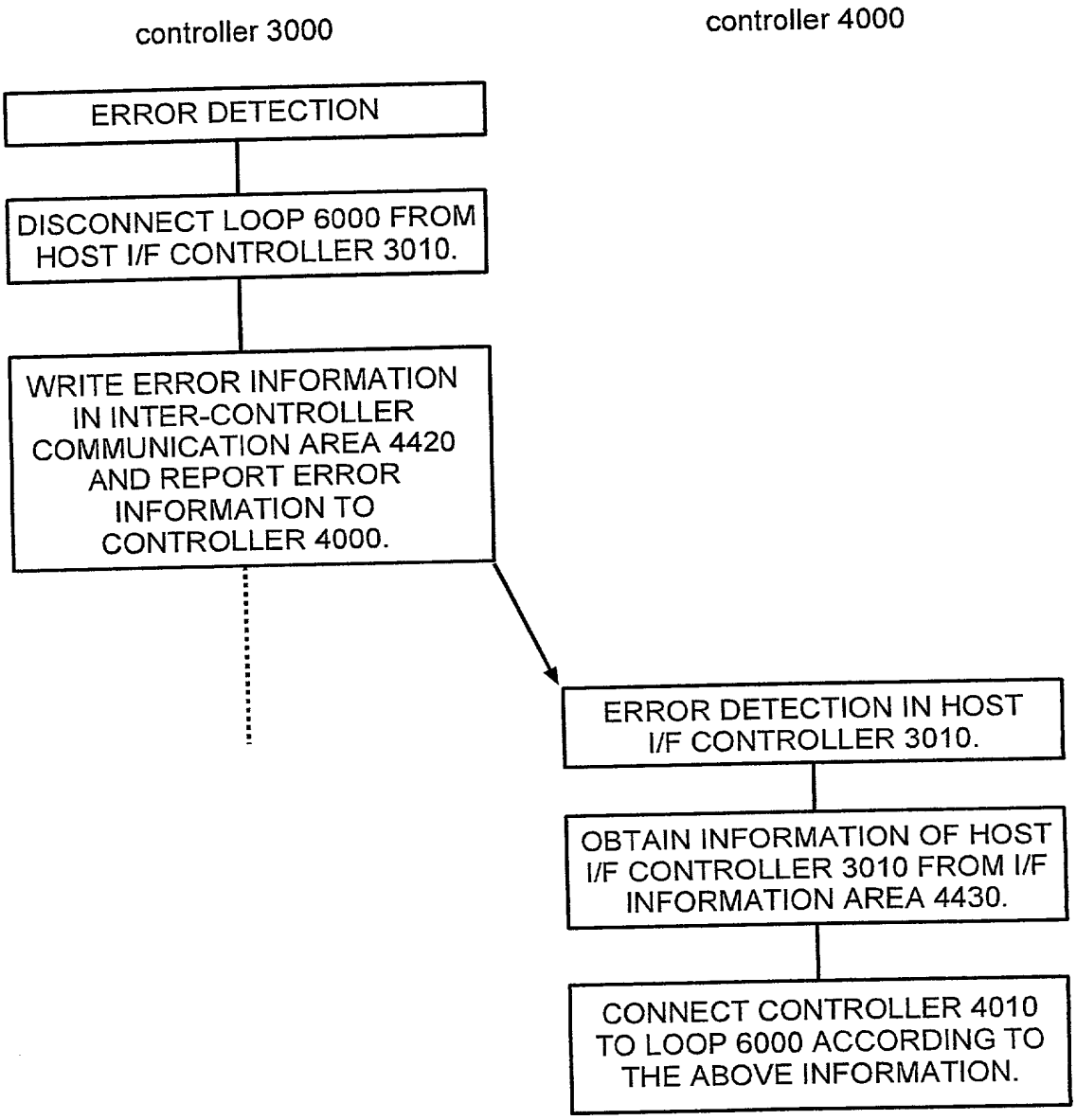

controller 3000
controller 4000
ERROR DETECTION
DISCONNECT LOOP 6000 FROM HOST I/F CONTROLLER 3010.
WRITE ERROR INFORMATION IN INTER-CONTROLLER COMMUNICATION AREA 4420 AND REPORT ERROR INFORMATION TO CONTROLLER 4000.
ERROR DETECTION IN HOST I/F CONTROLLER 3010.
OBTAIN INFORMATION OF HOST I/F CONTROLLER 3010 FROM I/F INFORMATION AREA 4430.
CONNECT CONTROLLER 4010 TO LOOP 6000 ACCORDING TO THE ABOVE INFORMATION.

FIG.4

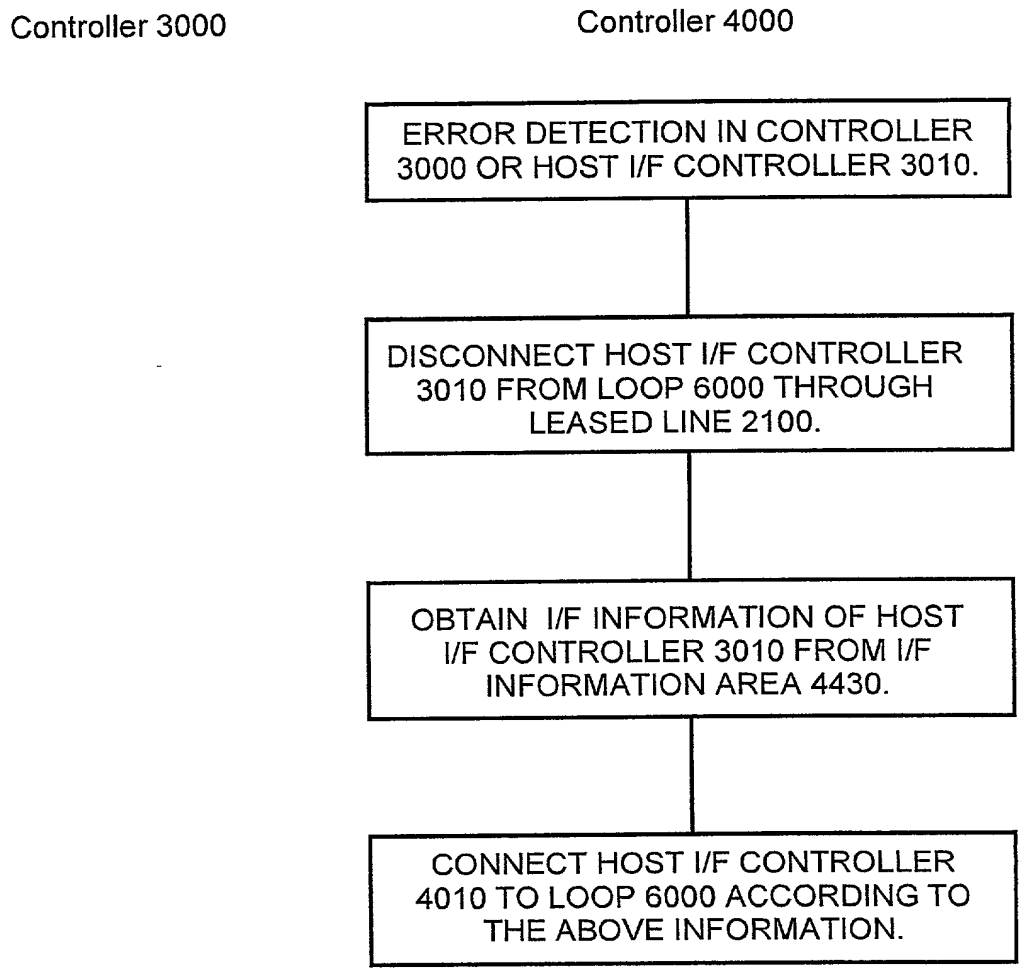
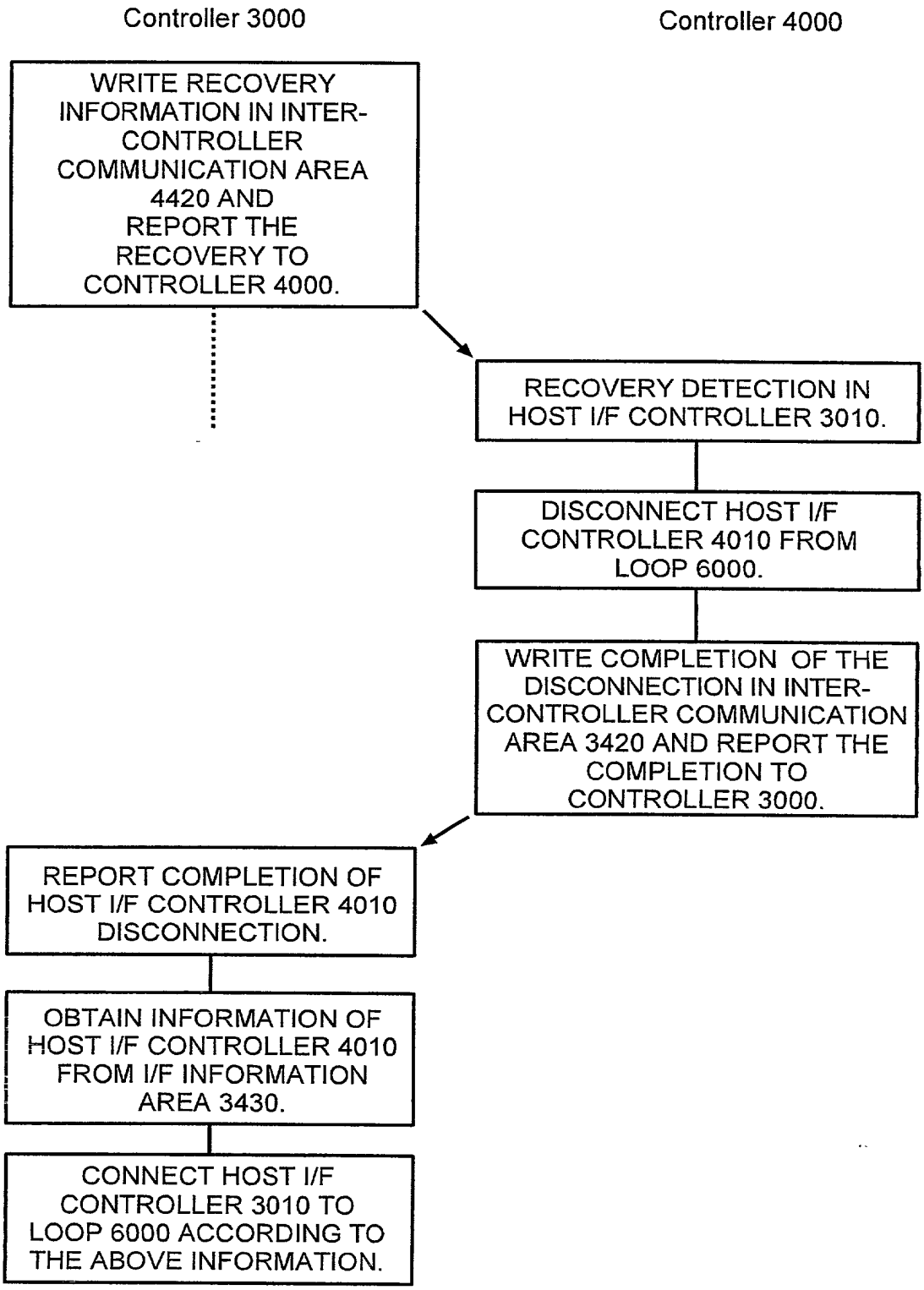

Controller 3000
Controller 4000
ERROR DETECTION IN CONTROLLER 3000 OR HOST I/F CONTROLLER 3010.
DISCONNECT HOST I/F CONTROLLER 3010 FROM LOOP 6000 THROUGH LEASED LINE 2100.
OBTAIN I/F INFORMATION OF HOST I/F CONTROLLER 3010 FROM I/F INFORMATION AREA 4430.
CONNECT HOST I/F CONTROLLER 4010 TO LOOP 6000 ACCORDING TO THE ABOVE INFORMATION.

FIG.5


Controller 3000
Controller 4000
WRITE RECOVERY INFORMATION IN INTER-CONTROLLER COMMUNICATION AREA 4420 AND REPORT THE RECOVERY TO CONTROLLER 4000.
RECOVERY DETECTION IN HOST I/F CONTROLLER 3010.
DISCONNECT HOST I/F CONTROLLER 4010 FROM LOOP 6000.
WRITE COMPLETION OF THE DISCONNECTION IN INTER-CONTROLLER COMMUNICATION AREA 3420 AND REPORT THE COMPLETION TO CONTROLLER 3000.
REPORT COMPLETION OF HOST I/F CONTROLLER 4010 DISCONNECTION.
OBTAIN INFORMATION OF HOST I/F CONTROLLER 4010 FROM I/F INFORMATION AREA 3430.
CONNECT HOST I/F CONTROLLER 3010 TO LOOP 6000 ACCORDING TO THE ABOVE INFORMATION.